



-1-

SEQUENCE LISTING

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Southwood, Scott  
Chesnut, Robert  
Celis, Esteban  
Keogh, Elissa

<120> Inducing Cellular Immune Responses To  
p53 Using Peptide And Nucleic Acid Compositions

<130> 2060.0120000

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<141> 1999-12-10

<150> US 09/017,735  
<151> 1998-02-03

<150> PCT/US99/13789  
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Ser Thr Ser Arg His Lys Lys Leu Met  
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Ser Val Thr Cys Thr Tyr Ser Pro Ala Leu  
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Cys Ala Cys Pro Gly Arg Asp Arg Arg  
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Asp Ser Thr Pro Pro Pro Gly Thr Arg Val Arg  
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Gly Ser Arg Ala His Ser Ser His Leu Lys  
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His Leu Ile Arg Val Glu Gly Asn Leu Arg  
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His Met Thr Glu Val Val Arg Arg  
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His Ser Ser His Leu Lys Ser Lys  
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His Ser Ser His Leu Lys Ser Lys Lys  
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Lys Met Phe Cys Gln Leu Ala Lys  
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Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg  
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Leu Leu Gly Arg Asn Ser Phe Glu Val Arg  
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<400> 223

Leu Ser Ser Ser Val Pro Ser Gln Lys  
1 5

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<400> 236  
Arg Ala His Ser Ser His Leu Lys  
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Arg Ala His Ser Ser His Leu Lys Ser Lys  
1 5 10

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<400> 238

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<400> 241

Arg	Thr	Glu	Glu	Glu	Asn	Leu	Arg	Lys
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Arg	Thr	Glu	Glu	Glu	Asn	Leu	Arg	Lys	Lys
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Arg Val Cys Ala Cys Pro Gly Arg Asp Arg  
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<400> 245

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Arg Val Glu Tyr Leu Asp Asp Arg  
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Arg Val Arg Ala Met Ala Ile Tyr Lys  
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<400> 248  
Ser Ser Cys Met Gly Gly Met Asn Arg  
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Ser Ser Pro Gln Pro Lys Lys Lys

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Ser Ser Ser Pro Gln Pro Lys Lys  
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<400> 254  
Ser Ser Ser Pro Gln Pro Lys Lys Lys  
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<400> 257

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<400> 258

Ser	Thr	Ser	Arg	His	Lys	Lys	Leu	Met	Phe	Lys
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<400> 259

Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg
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<400> 260

Thr	Ser	Arg	His	Lys	Lys	Leu	Met	Phe	Lys
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Thr	Ser	Ser	Ser	Pro	Gln	Pro	Lys
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<400> 262

Thr Ser Ser Ser Pro Gln Pro Lys Lys  
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<210> 263

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<400> 263

Thr Ser Ser Ser Pro Gln Pro Lys Lys Lys  
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Trp Val Asp Ser Thr Pro Pro Pro Gly Thr Arg  
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Tyr Leu Asp Asp Arg Asn Thr Phe Arg  
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<211> 9

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Ala Ile Tyr Lys Gln Ser Gln His Met  
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<400> 269

Ala Leu Asn Lys Met Phe Cys Gln Leu  
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<210> 270

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<400> 270

Ala Met Ala Ile Tyr Lys Gln Ser Gln His Met  
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<400> 271

Cys Met Gly Gly Met Asn Arg Arg Pro Ile  
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<400> 272  
Cys Met Gly Gly Met Asn Arg Arg Pro Ile Leu  
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Cys Thr Tyr Ser Pro Ala Leu Asn Lys Met  
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<223> Synthetic Peptide

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Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg Phe  
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Gly Leu Ala Pro Pro Gln His Leu  
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Gly Leu Ala Pro Pro Gln His Leu Ile  
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Gly Met Asn Arg Arg Pro Ile Leu  
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Gly Met Asn Arg Arg Pro Ile Leu Thr Ile  
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<400> 291

Gly Met Asn Arg Arg Pro Ile Leu Thr Ile Ile  
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<400> 293

Gly Thr Arg Val Arg Ala Met Ala Ile  
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Gly Thr Arg Val Arg Ala Met Ala Ile Tyr  
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<400> 295

His Leu Ile Arg Val Glu Gly Asn Leu  
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Ile Ile Thr Leu Glu Asp Ser Ser Gly Asn Leu  
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Met Leu Ser Pro Asp Asp Ile Glu Gln Trp  
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Asn Leu Leu Gly Arg Asn Ser Phe  
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<400> 317

Asn Val Leu Ser Pro Leu Pro Ser Gln Ala Met  
1 5 10

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<400> 319

Pro Ile Leu Thr Ile Ile Thr Leu  
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Pro Leu Ser Gln Glu Thr Phe Ser Asp Leu



1 5 10

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<400> 331  
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<400> 332  
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1 5 10

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<400> 333  
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1 5 10

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Arg	Val	Arg	Ala	Met	Ala	Ile	Tyr
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<400> 336

Ser	Thr	Ser	Arg	His	Lys	Lys	Leu
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<210> 337

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<400> 337

Ser	Thr	Ser	Arg	His	Lys	Lys	Leu	Met
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<400> 338

Ser	Thr	Ser	Arg	His	Lys	Lys	Leu	Met	Phe
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Asn	Thr	Phe	Arg	His	Ser	Val	Val
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Asn Thr Phe Arg His Ser Val Val Val  
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Asn Thr Phe Arg His Ser Val Val Val Pro Tyr  
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<400> 522

Gln Ser Thr Ser Arg His Lys Lys Leu  
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Ser Ser Gly Asn Leu Leu Gly Arg Asn Ser Phe  
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Ser	Ser	Val	Pro	Ser	Gln	Lys	Thr	Tyr
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Ser	Thr	Pro	Pro	Pro	Gly	Thr	Arg	Val
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Ser Thr Ser Arg His Lys Lys Leu  
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<400> 532

Ser Thr Ser Arg His Lys Lys Leu Met  
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Ser Thr Ser Arg His Lys Lys Leu Met Phe  
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<400> 809  
Arg Val Glu Tyr Leu Asp Asp Arg  
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Ser Cys Met Gly Gly Met Asn Arg Arg  
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Ser Asp Cys Thr Thr Ile His Tyr  
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Ser Asp Cys Thr Thr Ile His Tyr Asn Tyr  
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Ser Asp Ser Asp Gly Leu Ala Pro Pro Gln His  
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Ser Ser Cys Met Gly Gly Met Asn Arg  
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1 5

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1 5 10

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<400> 838

Ser Val Glu Pro Pro Leu Ser Gln Glu Thr Phe  
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<210> 839

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<400> 839

Ser Val Pro Ser Gln Lys Thr Tyr  
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Ser Val Thr Cys Thr Tyr Ser Pro Ala  
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<210> 841

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Thr Ala Lys Ser Val Thr Cys Thr Tyr  
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<210> 842

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<400> 842

Thr Cys Thr Tyr Ser Pro Ala Leu Asn Lys  
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<210> 843

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<212> PRT

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Thr	Phe	Arg	His	Ser	Val	Val	Val	Pro	Tyr
1				5					10

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<400> 844

Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg
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<210> 845

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<212> PRT

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<400> 845

Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg	Phe
1				5					10

<210> 846

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<400> 846

Thr	Ser	Arg	His	Lys	Lys	Leu	Met	Phe
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<210> 847

<211> 10

<212> PRT

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<220>

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<400> 847

Thr	Ser	Arg	His	Lys	Lys	Leu	Met	Phe	Lys
1				5					10

<210> 848  
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1 5

<210> 849  
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<400> 849  
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1 5

<210> 850  
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<210> 851  
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1 5 10

<210> 852  
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5

<210> 853  
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1 5 10

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Val Leu Ser Pro Leu Pro Ser Gln Ala  
1 5

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<400> 858  
Val Thr Cys Thr Tyr Ser Pro Ala  
1 5

<210> 859  
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<400> 859  
Val Thr Cys Thr Tyr Ser Pro Ala Leu Asn Lys  
1 5 10

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<400> 860  
Val Val Arg Arg Cys Pro His His  
1 5

<210> 861  
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Val Val Arg Arg Cys Pro His His Glu Arg  
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<210> 862  
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<400> 862

Trp	Phe	Thr	Glu	Asp	Pro	Gly	Pro	Asp	Glu	Ala
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<210> 863

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<212> PRT

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<400> 863

Trp	Val	Asp	Ser	Thr	Pro	Pro	Pro	Gly	Thr	Arg
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<210> 864

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Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly	Arg
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Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg
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<210> 866

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<400> 866

Tyr	Gly	Phe	Arg	Leu	Gly	Phe	Leu	His
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<210> 867

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Tyr Leu Asp Asp Arg Asn Thr Phe  
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<210> 868

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<400> 868

Tyr Leu Asp Asp Arg Asn Thr Phe Arg  
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<210> 869

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<400> 869

Tyr Leu Asp Asp Arg Asn Thr Phe Arg His  
1 5 10

<210> 870

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<212> PRT

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<400> 870

Tyr Ser Pro Ala Leu Asn Lys Met Phe  
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<210> 871

<211> 8

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<400> 871

Ala Cys Pro Gly Arg Asp Arg Arg  
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<210> 872  
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1 5 10

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1 5 10

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<400> 877  
Ala Met Ala Ile Tyr Lys Gln Ser Gln His  
1 5 10

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1 5

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<210> 886  
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<400> 886

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<211> 8

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<210> 888

<211> 11

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<210> 889

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<212> PRT

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<400> 889

Asp Ser Asp Gly Leu Ala Pro Pro Gln His  
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<210> 890

<211> 9

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<400> 890

Asp Ser Ser Gly Asn Leu Leu Gly Arg  
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<210> 891

<211> 9

<212> PRT

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<220>

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<400> 891

Asp Ser Thr Pro Pro Pro Gly Thr Arg  
1 5

<210> 892

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<400> 892

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<210> 893

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<220>

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<400> 893

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<210> 894

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<220>

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<400> 894

Glu Asp Ser Ser Gly Asn Leu Leu Gly Arg  
1 5 10

<210> 895

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<400> 895

Glu Gly Asn Leu Arg Val Glu Tyr  
1 5

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1 5

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Glu Asn Leu Arg Lys Lys Gly Glu Pro His



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<400> 901  
Glu Asn Leu Arg Lys Lys Gly Glu Pro His His  
1 5 10

<210> 902  
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<210> 903  
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1 5 10

<210> 904  
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1 5 10

<210> 905  
<211> 10  
<212> PRT  
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<400> 905

Glu Val Arg Val Cys Ala Cys Pro Gly Arg  
1 5 10

<210> 906

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 906

Glu Val Val Arg Arg Cys Pro His  
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<210> 907

<211> 9

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<400> 907

Glu Val Val Arg Arg Cys Pro His His  
1 5

<210> 908

<211> 11

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<213> Artificial Sequence

<220>

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<400> 908

Glu Val Val Arg Arg Cys Pro His His Glu Arg  
1 5 10

<210> 909

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

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<400> 909

Phe Leu His Ser Gly Thr Ala Lys  
1 5

<210> 910

<211> 8

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<400> 910

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<210> 911

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<400> 911

Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg  
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<400> 912

Gly Phe Leu His Ser Gly Thr Ala Lys  
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<210> 913

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<400> 913

Gly Phe Arg Leu Gly Phe Leu His  
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<210> 914

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<400> 914

Gly Gly Ser Arg Ala His Ser Ser His  
1 5

<210> 915

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<400> 915

Gly Gly Ser Arg Ala His Ser Ser His Leu Lys  
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<400> 916

Gly Leu Ala Pro Pro Gln His Leu Ile Arg  
1 5 10

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1 5 10

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<210> 1027  
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1				5					10

<210> 1031

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<400> 1031

Trp	Val	Asp	Ser	Thr	Pro	Pro	Pro	Gly	Thr	Arg
1				5					10	

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<400> 1032

Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly	Arg
1				5				

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<400> 1033

Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg
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<400> 1034

Tyr	Gly	Phe	Arg	Leu	Gly	Phe	Leu	His
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<400> 1035

Tyr Leu Asp Asp Arg Asn Thr Phe Arg  
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Tyr Leu Asp Asp Arg Asn Thr Phe Arg His  
1 5 10

<210> 1037

<211> 10

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<400> 1037

Cys Met Gly Gly Met Asn Arg Arg Pro Ile  
1 5 10

<210> 1038

<211> 11

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<400> 1038

Cys Met Gly Gly Met Asn Arg Arg Pro Ile Leu  
1 5 10

<210> 1039

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<212> PRT

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Glu Met Phe Arg Glu Leu Asn Glu Ala Leu  
1 5 10

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Glu Tyr Leu Asp Asp Arg Asn Thr Phe  
1 5

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Gly Met Asn Arg Arg Pro Ile Leu  
1 5

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Gly Met Asn Arg Arg Pro Ile Leu Thr Ile  
1 5 10

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Gly Met Asn Arg Arg Pro Ile Leu Thr Ile Ile  
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Leu Met Leu Ser Pro Asp Asp Ile

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Leu Met Leu Ser Pro Asp Asp Ile Glu Gln Trp  
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Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu  
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Met Phe Arg Glu Leu Asn Glu Ala Leu  
1 5

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Met Phe Arg Glu Leu Asn Glu Ala Leu Glu Leu  
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1 5

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Ser Tyr Gly Phe Arg Leu Gly Phe  
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Ser Tyr Gly Phe Arg Leu Gly Phe Leu  
1 5

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Thr Phe Ser Asp Leu Trp Lys Leu  
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Thr Phe Ser Asp Leu Trp Lys Leu Leu  
1 5

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<400> 1054

Thr Tyr Gln Gly Ser Tyr Gly Phe  
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<212> PRT

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<220>

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<400> 1055

Thr Tyr Gln Gly Ser Tyr Gly Phe Arg Leu  
1 5 10

<210> 1056

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<212> PRT

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<400> 1056

Thr Tyr Ser Pro Ala Leu Asn Lys Met Phe  
1 5 10

<210> 1057

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1057

Ala Lys Ser Val Thr Cys Thr Tyr Ser Pro Ala Leu Asn Lys Met  
1 5 10 15

<210> 1058

<211> 15

<212> PRT

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<400> 1058

Ala Leu Glu Leu Lys Asp Ala Gln Ala Gly Lys Glu Pro Gly Gly  
1 5 10 15

<210> 1059

<211> 15

<212> PRT

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<220>

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<400> 1059

Ala	Pro	Pro	Val	Ala	Pro	Ala	Pro	Ala	Ala	Pro	Thr	Pro	Ala	Ala
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<211> 15

<212> PRT

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<220>

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<400> 1060

Ala	Pro	Arg	Met	Pro	Glu	Ala	Ala	Pro	Pro	Val	Ala	Pro	Ala	Pro
1				5					10					15

<210> 1061

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1061

Ala	Pro	Ser	Trp	Pro	Leu	Ser	Ser	Ser	Val	Pro	Ser	Gln	Lys	Thr
1				5					10					15

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<212> PRT

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<220>

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<400> 1062

Cys	Thr	Thr	Ile	His	Tyr	Asn	Tyr	Met	Cys	Asn	Ser	Ser	Cys	Met
1				5					10					15

<210> 1063

<211> 15

<212> PRT

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<220>

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<400> 1063

Asp	Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg	Phe
1				5					10					15

<210> 1064  
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<400> 1064  
Asp Leu Met Leu Ser Pro Asp Asp Ile Glu Gln Trp Phe Thr Glu  
1 5 10 15

<210> 1065  
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<400> 1065  
Asp Pro Ser Val Glu Pro Pro Leu Ser Gln Glu Thr Phe Ser Asp  
1 5 10 15

<210> 1066  
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<212> PRT  
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<400> 1066  
Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe  
1 5 10 15

<210> 1067  
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<400> 1067  
Glu Asn Asn Val Leu Ser Pro Leu Pro Ser Gln Ala Met Asp Asp  
1 5 10 15

<210> 1068  
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<400> 1068  
Phe Cys Gln Leu Ala Lys Thr Cys Pro Val Gln Leu Trp Val Asp

1 5 10 15

<210> 1069  
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<212> PRT  
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Phe Ser Asp Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu Ser  
1 5 10 15

<210> 1070  
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<400> 1070  
Gly Phe Arg Leu Gly Phe Leu His Ser Gly Thr Ala Lys Ser Val  
1 5 10 15

<210> 1071  
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<400> 1071  
Gly Thr Arg Val Arg Ala Met Ala Ile Tyr Lys Gln Ser Gln His  
1 5 10 15

<210> 1072  
<211> 15  
<212> PRT  
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<220>  
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<400> 1072  
His His Glu Leu Pro Pro Gly Ser Thr Lys Arg Ala Leu Pro Asn  
1 5 10 15

<210> 1073  
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<213> Artificial Sequence

<220>  
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<400> 1073

His	Ser	Val	Val	Val	Pro	Tyr	Glu	Pro	Pro	Glu	Val	Gly	Ser	Asp
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<211> 15

<212> PRT

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<220>

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<400> 1074

His	Tyr	Asn	Tyr	Met	Cys	Asn	Ser	Ser	Cys	Met	Gly	Gly	Met	Asn
1				5					10					15

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<211> 15

<212> PRT

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<220>

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<400> 1075

Ile	Glu	Gln	Trp	Phe	Thr	Glu	Asp	Pro	Gly	Pro	Asp	Glu	Ala	Pro
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<210> 1076

<211> 15

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<400> 1076

Lys	Arg	Ala	Leu	Pro	Asn	Asn	Thr	Ser	Ser	Ser	Pro	Gln	Pro	Lys
1				5					10					15

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<210> 1077

<211> 15

<212> PRT

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<400> 1077

Leu	Gly	Phe	Leu	His	Ser	Gly	Thr	Ala	Lys	Ser	Val	Thr	Cys	Thr
1				5					10					15

<210> 1078

<211> 15

<212> PRT

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<400> 1078

Leu	Asn	Lys	Met	Phe	Cys	Gln	Leu	Ala	Lys	Thr	Cys	Pro	Val	Gln
1				5					10					15

<210> 1079

<211> 15

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<400> 1079

Leu	Ser	Pro	Leu	Pro	Ser	Gln	Ala	Met	Asp	Asp	Leu	Met	Leu	Ser
1				5					10					15

<210> 1080

<211> 15

<212> PRT

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<400> 1080

Leu	Thr	Ile	Ile	Thr	Leu	Glu	Asp	Ser	Ser	Gly	Asn	Leu	Leu	Gly
1				5					10					15

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<211> 15

<212> PRT

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<400> 1081

Met	Gly	Gly	Met	Asn	Arg	Arg	Pro	Ile	Leu	Thr	Ile	Ile	Thr	Leu
1				5					10					15

<210> 1082

<211> 15

<212> PRT

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<220>

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<400> 1082

Met	Thr	Glu	Val	Val	Arg	Arg	Cys	Pro	His	His	Glu	Arg	Cys	Ser
1				5					10					15

<210> 1083

<211> 15

<212> PRT

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<220>

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<400> 1083

Asn	Glu	Ala	Leu	Glu	Leu	Lys	Asp	Ala	Gln	Ala	Gly	Lys	Glu	Pro
1				5					10					15

<210> 1084

<211> 15

<212> PRT

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<220>

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<400> 1084

Asn	Asn	Val	Leu	Ser	Pro	Leu	Pro	Ser	Gln	Ala	Met	Asp	Asp	Leu
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<210> 1085

<211> 15

<212> PRT

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<220>

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<400> 1085

Pro	Asp	Asp	Ile	Glu	Gln	Trp	Phe	Thr	Glu	Asp	Pro	Gly	Pro	Asp
1				5					10					15

<210> 1086

<211> 15

<212> PRT

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<220>

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<400> 1086

Pro	Pro	Glu	Val	Gly	Ser	Asp	Cys	Thr	Thr	Ile	His	Tyr	Asn	Tyr
1				5					10					15

<210> 1087

<211> 15

<212> PRT

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<220>

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<400> 1087

Pro	Val	Gln	Leu	Trp	Val	Asp	Ser	Thr	Pro	Pro	Pro	Gly	Thr	Arg
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<400> 1088  
Gln Leu Trp Val Asp Ser Thr Pro Pro Pro Gly Thr Arg Val Arg  
1 5 10 15

<210> 1089  
<211> 15  
<212> PRT  
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<220>  
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<400> 1089  
Arg Leu Gly Phe Leu His Ser Gly Thr Ala Lys Ser Val Thr Cys  
1 5 10 15

<210> 1090  
<211> 15  
<212> PRT  
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<220>  
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<400> 1090  
Arg Asn Ser Phe Glu Val Arg Val Cys Ala Cys Pro Gly Arg Asp  
1 5 10 15

<210> 1091  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 1091  
Arg Asn Thr Phe Arg His Ser Val Val Val Pro Tyr Glu Pro Pro  
1 5 10 15

<210> 1092  
<211> 15  
<212> PRT  
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<220>  
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<400> 1092  
Arg Pro Ile Leu Thr Ile Ile Thr Leu Glu Asp Ser Ser Gly Asn



1 5 10 15

<210> 1093  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 1093  
Arg Arg Pro Ile Leu Thr Ile Ile Thr Leu Glu Asp Ser Ser Gly  
1 5 10 15

<210> 1094  
<211> 15  
<212> PRT  
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<220>  
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<400> 1094  
Ser Phe Glu Val Arg Val Cys Ala Cys Pro Gly Arg Asp Arg Arg  
1 5 10 15

<210> 1095  
<211> 15  
<212> PRT  
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<220>  
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<400> 1095  
Ser Gly Asn Leu Leu Gly Arg Asn Ser Phe Glu Val Arg Val Cys  
1 5 10 15

<210> 1096  
<211> 15  
<212> PRT  
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<220>  
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<400> 1096  
Ser Pro Ala Leu Asn Lys Met Phe Cys Gln Leu Ala Lys Thr Cys  
1 5 10 15

<210> 1097  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 1097

Ser	Gln	Ala	Met	Asp	Asp	Leu	Met	Leu	Ser	Pro	Asp	Asp	Ile	Glu
1				5					10					15

<210> 1098

<211> 15

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1098

Ser	Ser	Ser	Val	Pro	Ser	Gln	Lys	Thr	Tyr	Gln	Gly	Ser	Tyr	Gly
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<210> 1099

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1099

Ser	Val	Val	Val	Pro	Tyr	Glu	Pro	Pro	Glu	Val	Gly	Ser	Asp	Cys
1				5					10					15

<210> 1100

<211> 15

<212> PRT

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<220>

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<400> 1100

Ser	Trp	Pro	Leu	Ser	Ser	Ser	Val	Pro	Ser	Gln	Lys	Thr	Tyr	Gln
1				5					10					15

<210> 1101

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1101

Ser	Tyr	Gly	Phe	Arg	Leu	Gly	Phe	Leu	His	Ser	Gly	Thr	Ala	Lys
1				5					10					15

<210> 1102

<211> 15

<212> PRT

- <213> Artificial Sequence

<220>

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<400> 1102

Val	Glu	Tyr	Leu	Asp	Asp	Arg	Asn	Thr	Phe	Arg	His	Ser	Val	Val
1				5					10					15

<210> 1103

<211> 15

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<220>

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<400> 1103

Val	Gln	Leu	Trp	Val	Asp	Ser	Thr	Pro	Pro	Pro	Gly	Thr	Arg	Val
1				5					10					15

<210> 1104

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1104

Val	Val	Pro	Tyr	Glu	Pro	Pro	Glu	Val	Gly	Ser	Asp	Cys	Thr	Thr
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<210> 1105

<211> 15

<212> PRT

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<220>

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<400> 1105

Trp	Lys	Leu	Leu	Pro	Glu	Asn	Asn	Val	Leu	Ser	Pro	Leu	Pro	Ser
1				5					10					15

<210> 1106

<211> 15

<212> PRT

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<220>

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<400> 1106

Tyr	Asn	Tyr	Met	Cys	Asn	Ser	Ser	Cys	Met	Gly	Gly	Met	Asn	Arg
1				5					10					15

<210> 1107

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1107

Asp	Leu	Met	Leu	Ser	Pro	Asp	Asp	Ile	Glu	Gln	Trp	Phe	Thr	Glu
1				5					10					15

<210> 1108

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1108

Glu	Gly	Asn	Leu	Arg	Val	Glu	Tyr	Leu	Asp	Asp	Arg	Asn	Thr	Phe
1				5					10					15

<210> 1109

<211> 15

<212> PRT

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<220>

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<400> 1109

Glu	Pro	Pro	Leu	Ser	Gln	Glu	Thr	Phe	Ser	Asp	Leu	Trp	Lys	Leu
1				5					10					15

<210> 1110

<211> 15

<212> PRT

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<220>

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<400> 1110

Glu	Gln	Trp	Phe	Thr	Glu	Asp	Pro	Gly	Pro	Asp	Glu	Ala	Pro	Arg
1				5					10					15

<210> 1111

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1111

Lys	Lys	Pro	Leu	Asp	Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly
1				5					10					15

<210> 1112  
<211> 15  
<212> PRT  
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<220>  
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<400> 1112  
Leu Thr Ile Ile Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Gly  
1 5 10 15

<210> 1113  
<211> 15  
<212> PRT  
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<220>  
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<400> 1113  
Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu Ser Pro Leu Pro  
1 5 10 15

<210> 1114  
<211> 15  
<212> PRT  
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<220>  
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<400> 1114  
Pro Pro Glu Val Gly Ser Asp Cys Thr Thr Ile His Tyr Asn Tyr  
1 5 10 15

<210> 1115  
<211> 15  
<212> PRT  
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<220>  
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<400> 1115  
Pro Val Gln Leu Trp Val Asp Ser Thr Pro Pro Pro Gly Thr Arg  
1 5 10 15

<210> 1116  
<211> 15  
<212> PRT  
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<220>  
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<400> 1116  
Gln His Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu

1 5 10 15

<210> 1117  
<211> 15  
<212> PRT  
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<220>  
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<400> 1117  
Arg Phe Glu Met Phe Arg Glu Leu Asn Glu Ala Leu Glu Leu Lys  
1 5 10 15

<210> 1118  
<211> 15  
<212> PRT  
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<220>  
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<400> 1118  
Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe Arg His Ser Val  
1 5 10 15

<210> 1119  
<211> 15  
<212> PRT  
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<220>  
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<400> 1119  
Ser Val Val Val Pro Tyr Glu Pro Pro Glu Val Gly Ser Asp Cys  
1 5 10 15

<210> 1120  
<211> 15  
<212> PRT  
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<220>  
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<400> 1120  
Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg Phe Glu  
1 5 10 15

<210> 1121  
<211> 15  
<212> PRT  
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<220>  
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<400> 1121  
Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp  
1 5 10 15

<210> 1122  
<211> 15  
<212> PRT  
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<220>  
<223> Synthetic Peptide

<400> 1122  
Met Ala Ile Tyr Lys Gln Ser Gln His Met Thr Glu Val Val Arg  
1 5 10 15

<210> 1123  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 1123  
Val Thr Cys Thr Tyr Ser Pro Ala Leu  
1 5

<210> 1124  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 1124  
Leu Lys Asp Ala Gln Ala Gly Lys Glu  
1 5

<210> 1125  
<211> 9  
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Leu Leu Gly Arg Asp Ser Phe Glu Val  
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Ala Leu Asn Lys Met Phe Cys Gln Leu  
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Lys Gln Ser Gln His Met Thr Glu Val  
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Phe	Pro	Pro	Gly	Ser	Thr	Lys	Arg	Ala	Leu
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Phe	Pro	Gln	Pro	Lys	Lys	Lys	Pro	Ile
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Phe	Pro	Gln	Pro	Lys	Lys	Lys	Pro	Leu
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Cys Gln Leu Ala Lys Thr Cys Pro Val  
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<210> 1319

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Ala Ala Pro Pro Val Ala Pro Ala  
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Ala Leu Pro Pro Val Ala Pro Val  
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Ala Leu Asn Lys Met Phe Cys Gln Leu  
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Ala Leu Asn Lys Met Phe Cys Gln Val  
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<210> 1323  
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<210> 1335  
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<400> 1337

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<210> 1338

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<400> 1341

Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val  
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<212> PRT

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Lys	Val	Phe	Pro	Tyr	Ala	Leu	Ile	Asn	Lys
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<212> PRT

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Lys	Val	Phe	Pro	Tyr	Ala	Leu	Ile	Asn	Lys
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<210> 1346

<211> 9

<212> PRT

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Ala	Tyr	Ile	Asp	Asn	Tyr	Asn	Lys	Phe
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<400> 1347  
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Tyr Arg His Asp Gly Gly Asn Val Leu  
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Arg Gly Tyr Val Phe Gln Gly Leu  
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Arg Gly Pro Tyr Arg Ala Phe Val Thr Ile  
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Ile Pro Gln Ser Leu Asp Ser Tyr Trp Thr Ser Leu  
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<210> 1378  
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Glu	Ala	Leu	Ile	His	Gln	Leu	Lys	Ile	Asn	Pro	Tyr	Val	Leu	Ser
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<400> 1383

Gln	Tyr	Ile	Lys	Ala	Asn	Ala	Lys	Phe	Ile	Gly	Ile	Thr	Glu
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<210> 1384

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<400> 1384

Gln	Tyr	Ile	Lys	Ala	Asn	Ala	Lys	Phe	Ile	Gly	Ile	Thr	Glu
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<210> 1385

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Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr  
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<210> 1386

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<400> 1386

Asn Gly Gln Ile Gly Asn Asp Pro Asn Arg Asp Ile Leu  
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<212> PRT

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<400> 1387

Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr  
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<210> 1388

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<400> 1388

Tyr Ala His Ala Ala His Ala Ala His Ala Ala His Ala Ala His Ala  
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<211> 17

<212> PRT

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<400> 1389

Tyr Ala His Ala Ala His Ala Ala His Ala Ala His Ala Ala His Ala  
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<210> 1397  
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<210> 1398  
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<210> 1399  
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<210> 1409  
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Lys Leu Ser Gln His Met Thr Glu Val  
1 5

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<400> 1437

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<212> PRT

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Tyr	Met	Cys	Asn	Ser	Ser	Cys	Met	Gly	Gly	Met
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<210> 1439

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<212> PRT

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<400> 1439

Tyr	Leu	Cys	Asn	Ser	Ser	Cys	Met	Gly	Gly	Val
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<400> 1440

Ile	Thr	Leu	Glu	Asp	Ser	Ser	Gly	Asn	Leu	Leu
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Ile	Leu	Leu	Glu	Asp	Ser	Ser	Gly	Asn	Leu	Val
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Ala Ala Pro Pro Val Ala Pro Ala  
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<210> 1443  
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<400> 1443  
Ala Leu Pro Pro Val Ala Pro Val  
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<210> 1444  
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<400> 1444  
Ala Leu Asn Lys Met Phe Cys Gln Leu  
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<400> 1445  
Ala Leu Asn Lys Met Phe Cys Gln Val  
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<210> 1446  
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<400> 1454  
Ser Thr Pro Pro Pro Gly Thr Arg Val  
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<210> 1455  
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<400> 1455  
Ser Leu Pro Pro Pro Gly Thr Arg Val  
1 5

<210> 1456  
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Ser Met Pro Pro Pro Gly Thr Arg Val  
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<210> 1457  
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Val Val Val Pro Tyr Glu Pro Pro Glu Val  
1 5 10

<210> 1458  
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Val Leu Val Pro Tyr Glu Pro Pro Glu Val  
1 5 10

<210> 1459  
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<400> 1459  
Ile Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu  
1 5 10

<210> 1460  
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<220>  
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<400> 1460  
Ile Leu Leu Glu Asp Ser Ser Gly Asn Leu Val  
1 5 10

<210> 1461  
<211> 15  
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<220>

<223> Synthetic Peptide

<400> 1461

Gly	Phe	Arg	Leu	Gly	Phe	Leu	His	Ser	Gly	Thr	Ala	Lys	Ser	Val
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<210> 1462

<211> 15

<212> PRT

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<220>

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<400> 1462

Leu	Asn	Lys	Met	Phe	Cys	Gln	Leu	Ala	Lys	Thr	Cys	Pro	Val	Gln
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<212> PRT

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<400> 1463

Met	Gly	Gly	Met	Asn	Arg	Arg	Pro	Ile	Leu	Thr	Ile	Ile	Thr	Leu
1				5					10					15

<210> 1464

<211> 15

<212> PRT

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<220>

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<400> 1464

Arg	Arg	Pro	Ile	Leu	Thr	Ile	Ile	Thr	Leu	Glu	Asp	Ser	Ser	Gly
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<210> 1465

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1465

Lys	Arg	Ala	Leu	Pro	Asn	Asn	Thr	Ser	Ser	Ser	Pro	Gln	Pro	Lys
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<210> 1466

<211> 15

<212> PRT  
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<220>  
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<400> 1466  
Asp Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg Phe  
1 5 10 15

<210> 1467  
<211> 15  
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<400> 1467  
Gly Phe Arg Leu Gly Phe Leu His Ser Gly Thr Ala Lys Ser Val  
1 5 10 15

<210> 1468  
<211> 14  
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<400> 1468  
Leu Asn Lys Met Phe Cys Gln Leu Ala Lys Thr Cys Pro Val  
1 5 10

<210> 1469  
<211> 15  
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<400> 1469  
Glu Pro Pro Leu Ser Gln Glu Thr Phe Ser Asp Leu Trp Lys Leu  
1 5 10 15

<210> 1470  
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<400> 1470  
Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu Ser Pro Leu Pro  
1 5 10 15

<210> 1471  
<211> 15  
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<400> 1471  
Asp Leu Met Leu Ser Pro Asp Asp Ile Glu Gln Trp Phe Thr Glu  
1 5 10 15

<210> 1472  
<211> 15  
<212> PRT  
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<220>  
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<400> 1472  
Glu Gln Trp Phe Thr Glu Asp Pro Gly Pro Asp Glu Ala Pro Arg  
1 5 10 15

<210> 1473  
<211> 15  
<212> PRT  
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<220>  
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<400> 1473  
Pro Val Gln Leu Trp Val Asp Ser Thr Pro Pro Pro Gly Thr Arg  
1 5 10 15

<210> 1474  
<211> 15  
<212> PRT  
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<220>  
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<400> 1474  
Met Ala Ile Tyr Lys Gln Ser Gln His Met Thr Glu Val Val Arg  
1 5 10 15

<210> 1475  
<211> 15  
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<220>  
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<400> 1475  
Gln His Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu



1 5 10 15

<210> 1476  
<211> 15  
<212> PRT  
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<220>  
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<400> 1476  
Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp  
1 5 10 15

<210> 1477  
<211> 15  
<212> PRT  
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<220>  
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<400> 1477  
Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe  
1 5 10 15

<210> 1478  
<211> 15  
<212> PRT  
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<220>  
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<400> 1478  
Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe Arg His Ser Val  
1 5 10 15

<210> 1479  
<211> 15  
<212> PRT  
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<220>  
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<400> 1479  
Ser Val Val Val Pro Tyr Glu Pro Pro Glu Val Gly Ser Asp Cys  
1 5 10 15

<210> 1480  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 1480

Pro	Pro	Glu	Val	Gly	Ser	Asp	Cys	Thr	Thr	Ile	His	Tyr	Asn	Tyr
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<210> 1481

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1481

Leu	Thr	Ile	Ile	Thr	Leu	Glu	Asp	Ser	Ser	Gly	Asn	Leu	Leu	Gly
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<210> 1482

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1482

Lys	Lys	Pro	Leu	Asp	Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly
1				5					10					15

<210> 1483

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1483

Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg	Phe	Glu
1				5					10					15

<210> 1484

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1484

Arg	Phe	Glu	Met	Phe	Arg	Glu	Leu	Asn	Glu	Ala	Leu	Glu	Leu	Lys
1				5					10					15

<210> 1485

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1485

Gly	Phe	Arg	Leu	Gly	Phe	Leu	His	Ser	Gly	Thr	Ala	Lys	Ser	Val
1				5					10					15

<210> 1486

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1486

Leu	Asn	Lys	Met	Phe	Cys	Gln	Leu	Ala	Lys	Thr	Cys	Pro	Val	Gln
1				5					10					15

<210> 1487

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1487

Gln	Tyr	Ile	Lys	Ala	Asn	Ser	Lys	Phe	Ile	Gly	Ile	Thr	Glu
1				5					10				

<210> 1488

<211> 21

<212> PRT

<213> Plasmodium falciparum

<400> 1488

Asp	Ile	Glu	Lys	Lys	Ile	Ala	Lys	Met	Glu	Lys	Ala	Ser	Ser	Val	Phe
1				5					10					15	
Asn	Val	Val	Asn	Ser											
					20										

<210> 1489

<211> 16

<212> PRT

<213> Streptococcus Aureus

<400> 1489

Gly	Ala	Val	Asp	Ser	Ile	Leu	Gly	Gly	Val	Ala	Thr	Tyr	Gly	Ala	Ala
1				5					10					15	

<210> 1490

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

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<223> Xaa = D-Ala or L-Ala

<221> MOD\_RES  
<222> (3)..(3)  
<223> Xaa = cyclohexylalanine, Phe or Tyr

<221> MOD\_RES  
<222> (13)..(13)  
<223> Xaa = D-Ala or L-Ala

<400> 1490  
Xaa Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Xaa  
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<210> 1491  
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<223> Met, Phe, Leu, Ile, Val, Trp, or Tyr

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<222> (6)..(6)  
<223> Ile, Val, Met, Ser, Ala, Cys, Thr, Pro, or Leu

<220>  
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<400> 1491  
Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa  
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<210> 1492  
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<223> May be any amino acid

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<223> May be any amino acid

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<400> 1492  
Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly  
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